## What is claimed is:

- A system for controlling fuel vapor recirculation during refueling of a tank from a dispensing nozzle during refueling of a tank from a dispensing nozzle comprising:
  - (a) a filler tube with a means for sealing about the nozzle;
  - (b) a means defining a vapor recirculation path from the tank to the filler tube at a location downstream of said means for sealing about the nozzle;
  - (c) a vapor storage device disposed externally of the tank and connected to receive fuel vapor from the tank; and,
  - (d) a flow control valve disposed in said recirculating path, said flow control valve responsive to a predetermined pressure differential across the valve to change from a first relatively low flow rate to a second substantially higher flow rate.
- 2. The system defined in claim 1, wherein said flow control valve includes a valve obturator moveable between an open and closed position with a passage therethrough providing said first flow rate when said obturator is in said closed position, said obturator providing said second flow rate in said open position.
- 3. The system defined in claim 1, wherein said flow control valve includes a piston having a passage therethrough.
- 4. The system defined in claim 1, wherein said recirculation path includes a float operated valve is disposed fluidically in series with said flow control valve;

- 5. The system defined in claim 4, wherein said flow control valve and said float operated valve are mounted in a common housing through an access opening in the tank.
- 6. The system defined in claim 5, wherein said flow control valve and said float operated valve are mounted in vertically aligned arrangement.
- 7. The system defined in claim 1, wherein said flow control valve wherein said flow control valve is operative to change to said second flow rate at a pressure differential thereacross of about 1 kPa (4 in. H<sub>2</sub>O).

- 8. A method of controlling fuel vapor recirculation during refueling of a tank from a dispensing nozzle comprising:
  - (a) providing a tank filler tube with a nozzle receiving cup end disposing an annular seal in the cup and sealing bout the nozzle upon insertion therein;
  - (b) providing a vapor recirculation passage from the tank to the filler tube cup downstream of the nozzle seal;
  - (c) disposing a pressure responsive flow control valve in said recirculation passage and changing the rate of flow in said passage from a first rate to a second significantly higher rate when said valve experiences a predetermined pressure differential thereacross.
- 9. The method defined in claim 8, wherein said step of disposing a flow control valve includes disposing a valve with an obturator having a passage therethrough; and, said step of changing the rate includes moving the obturator between an open and closed position.
- 10. The method defined in claim 8, further comprising disposing a float operated valve in said recirculation line.
- 11. The method defined in claim 10, wherein said step of disposing a float operated valve includes disposing said flow control valve and said float operated valve in a common housing.
- 12. The method defined in claim 11, wherein said step of disposing in a common housing includes mounting said housing through an access opening in the tank.

- 13. The method defined in claim 8, wherein said step of disposing a flow control valve includes disposing a valve with a moveable piston and forming a passage through the piston for providing the first flow rate.
- 14. The method defined in claim 8, further comprising disposing a float operated valve vertically aligned with said flow control valve.